

NUCLEAR DIVISION NEWS

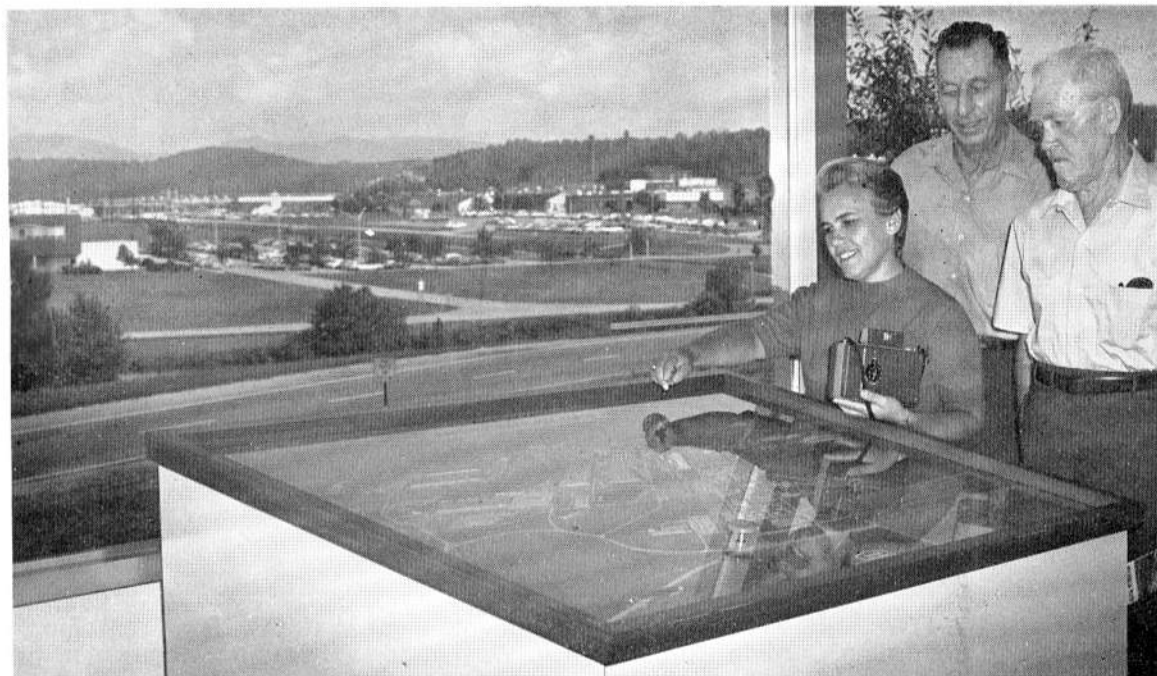


A Newspaper for Employees of the Nuclear Division, Union Carbide Corporation

Vol. 1 — No. 17

OAK RIDGE, TENNESSEE

Thursday, September 24, 1970



FROM NEAR AND FAR—The Oak Ridge Gaseous Diffusion Plant Overlook attracts visitors from throughout the nation and many other countries. Shown during a recent visit are, from right, George Teffeteller, Maryville, Tenn.; L. B. Eggers, who is employed in the Oak Ridge Y-12 Plant's Maintenance Division; and Eggers' sister-in-law Dorothy Teffeteller, who is visiting here. Miss Teffeteller lives in Panorama City, Calif. Eggers has been with Y-12 for almost 20 years.

Drive Starts Soon

Nuclear Division United Fund Sets '70 Goals, Names Leaders

Kickoff for the Nuclear Division's 1970 United Way drive is just a week away, and this issue of **Nuclear Division News** includes several special features to bring you up to date for the October campaign.

Named to head the drive have been, as general chairman, W. H. Hildebrand, Superintendent of Finance and Materials at the Oak Ridge Gaseous Diffusion Plant, and, as assistant chairman, Marion H. Randolph, a development engineer at ORGDP (story on page 3). The total Division goal for all counties is \$297,000.

This week, pages 3 and 4 are a special edition for the 1970 United Way. Included are summaries of the Knox and Anderson County agencies funded by the United Fund dollars, and answers to the more common questions typically raised in each year's drive.

In addition, there are reports on UF community services (page 5) and the "needed share" requested of all Carbide employees (page 6).

A special UF slide show—"United We Stand . . . in East Tennessee"—will be available for showings to all employees.

Major drive leaders named to date include: general chairman, Hildebrand; assistant general chairman, Randolph; treasurer, J. A. Corn; co-chairmen at Oak

Ridge National Laboratory, N. L. Beeler and H. E. Seagren; co-chairmen at the Oak Ridge Y-12 Plant, B. W. Hensley, G. F. McPherson and H. F. Smith, Jr.; and co-chairmen at the Oak Ridge Gaseous Diffusion Plant, H. M. Benton, E. C. Clevenger, H. B. Gunter, and W. E. Rooks. Co-chairman for the general staff is H. R. Gregg.

Boating Classes

The Oak Ridge Power Squadron is again conducting free classes in Seamanship and Small Boat Handling. Classes will begin September 25 at 7:30 p.m. in room H-237 at the Oak Ridge High School. They will be directed by R. S. Lord, ORNL, Squadron Educational Officer; and N. W. Snow, ORGDP, Course Chairman.

Special Issue

There are no Y-12 Bulletin and Carbide Courier middle editions in this issue of the Nuclear Division News. These sections have been preempted by a special salute to the United Fund drive which opens in the plants soon.

The Bulletin and Courier return to the News in the next issue.

Radiation Standards — Too High or Too Low?

The East Tennessee Chapter of the Health Physics Society will meet next Tuesday, September 29, at the Oak Ridge Country Club.

A panel discussion, "Present Radiation Standards—Too High or Too Low?" will be held. J. C. Hart, ORNL Health Physics Division, will chair the discussion, and panelists are E. L. Saenger, M.D., University of Cincinnati; C. C. Lushbaugh, M.D., ORAU; John Storer, M.D., ORNL; and John Auxier, ORNL Health Physics Division.

A social hour will begin at 5:30 Tuesday. Reservations in Y-12 should be made through Calvin Hopper, extension 3-5315; and in ORGDP through Newell Barker, extension 3-3108.

K-25 Barbecue Fills Park Area Saturday

The entire Number One Picnic Area and adjoining parking, including the boat trailer parking lot at Clark Center Park, is reserved Saturday, October 3. The annual K-25 Barbecue-Hootenanny is being held then. Boats and trailers are to be removed from the parking area by noon October 3.

K-25 employees planning to attend are reminded that there is generally a shortage of tables and seats. A number of employees bring their own portable picnic tables and chairs.

Other Countries, Too

Overlook at ORGDP Attracts Visitors from 47 of 50 States

Nearly 5,000 persons—an average of about 370 per week—visited the improved Visitor's Overlook at the Oak Ridge Gaseous Diffusion Plant during the June-August tourist season.

Signing the Overlook's guest log were visitors from 25 foreign countries and 47 states—missing only Nevada, Vermont, and Wyoming. About 1,150 visited in June, 1,650 in July, and more than 2,000 in August.

From 25 Countries

Foreign guests included citizens from Argentina, Australia, Canada, Chile, Colombia, Denmark, England, France, Germany, Greenland, Guatemala, Israel, Italy, Ireland, Japan, Lebanon, Libya, Mexico, The Netherlands, New Zealand, Scotland, South Africa, Sweden, Switzerland, and Venezuela.

Since being renovated last summer, the Overlook has attracted increasing numbers of visitors. Now air-conditioned and

with tinted windows for the visitor's comfort, the facility has several special features which describe the role of the gaseous diffusion plants—and other AEC facilities operated by the Nuclear Division—in meeting the nation's energy needs.

Open Daily

Major facilities at the gaseous diffusion plant are identified on a large aerial photo in the Overlook. Also available are a recently updated taped message, several exhibits, and a "Visitor's Information" pamphlet. Located nearby are picnic and parking areas.

The Overlook is open daily from 8 a.m. to dusk. Visitors are also urged to see the Oak Ridge Graphite Reactor, a national historic landmark at Oak Ridge National Laboratory, and the American Museum of Atomic Energy.

What Will Price Be For Pollution Fight?

Who pays the bill for pollution solutions? Both the theme and question to be answered is the subject of a symposium set tonight in Oak Ridge. It is co-sponsored by the Tennessee Environmental Council and by the American Association of University Women. It is set for 7:30 p.m. in the auditorium of St. Mary's Church.

William B. Faris, Executive Director of the Tennessee Society of Professional Engineers, Nashville, has formed a panel for the meeting. Among panelists are Cecil Branstetter, Nashville attorney and president of the newly organized Environmental Council; and Edward L. Thackston, Assistant Director of Environmental and Water Resources Engineering at Vanderbilt University. Dr. Thackston says, "It's going to cost something like \$10 billion even to catch up with the water pollution abatement requirements of Americans in the next five years. Tennessee's share will be about \$72 million."

Also on the panel will be John C. Burdick, III, of The University of Tennessee, who will discuss the ills and curative costs of reducing air pollution to healthful levels.

Lloyd Jones, Y-12 Engineering, will sum up the evening. Jones is president of the Tennessee Society of Professional Engineers.

Mrs. B. D. Holcomb and Mrs. M. J. Fortenberry are co-chairmen of the local chapter of the AAUW.

Secretaries' Seminar Scheduled Tomorrow

"The Secretary in a New Era" is the theme of the seminar for career secretaries scheduled to be held tomorrow at the Holiday Inn in Oak Ridge. More than 200 secretaries, the bulk of whom are Nuclear Division employees, are expected to attend the sessions, sponsored by the Oak Ridge Chapter of the National Secretaries Association.

Sallie Jansch is seminar chairman. Martha Lyle, president of the local chapter of NSA, will welcome the group at the opening luncheon.

Roger F. Hibbs, president of the Nuclear Division, will address the group. His subject will be "Motivation is the Base." Dr. William H. Bonner, head of the Department of Business Administration, Tennessee Technological University, will speak on education as a power to the secretary.

Juanita Godfrey, executive secretary to the vice president of Shook and Fletcher Insulation Co., Birmingham, Ala., will speak on innovation.

A panel will discuss consultation. It will consist of Mary Maples, Nelline Ross, Virginia Mains and Edith Szathmary.

Four Nuclear Division secretaries, Wilma Baldry, Irene Gentry, Doris Simpson and Eileen Walbrecht, will receive their Certified Public Secretary certificates.



Hensley



Smith



Rooks



Gunter



Benton



Gregg



Seagren



Corn



McPherson



Clevenger

Carbide Scholar Finds Washington 'Alive and Well' and Very Active!

"... and the Government in Washington still lives," observed James A. Garfield in 1865.

"Alive and well, and where the action is," is the way James F. Snyder, our first scholar to attend the Washington Congressional Workshops, sees the seat of our government.

The 11-day stay in the Nation's Capital — from August 2 until 13 — gave the young Oak Ridge scholar a keener insight into the everyday functions of our government.

Jim was one of the 140 students chosen to attend the fourth session of the Washington Workshops Congressional Seminar, and one of the 10 Union Carbide scholars. Carbide sponsored students from various sections of the country where divisions are represented.

Government Activity

The U. S. Senate in debate over the Anti-Ballistic Missile system, the Lower House involved in the Women's Liberation movement, the Supreme Court in summer recess, the military involved in appropriations, the White House assistants concerned with drug abuses and crime, ambassadors upset over the Mid East, the 'spit-and-polish' of a Marine parade, the enormity of the Pentagon, the pomp and ceremony of a rose garden welcome for President Mobutu of the Congo, plus the thousand things that "tourists do" in Washington are some of the memories Jim brought back home with him.

Young Snyder was chosen for the honor by his teachers at Oak Ridge High School. His 3.8 average, plus his interest in government, and his leadership abilities were some of the determining factors in his being chosen. He was a member of the National Honor Society, Student Council, International Relations Club and the Model United Nations Program. This summer he has been director of the Community Action Summer Program, sponsored by the C.A.P. and St. Stephens Episcopal Church. He is involved in instructing about 40 children a day in a program similar to Head-Start.

Busy Schedule

Lists of government notables to address the seminar look as if they were clipped from today's headlines, or a "who's who" in government... men like Charles H. Percy, John Sherman Cooper, Carl T. Curtis, Frank E. Moss, Harold E. Hughes, Marlow W. Cook, Alan Cranston, Charles Mathias, Walter Mondale, all well-known names from the U. S. Senate. Then there were Representative Shirley Chisholm, out-

spoken black congresswoman from New York; Representative Joseph M. McDade, from Pennsylvania; Secretary of the Treasury David M. Kennedy; General William C. Westmoreland, Chief of Staff of the U. S. Army; Richard L. McVity, Program Chief of the Bureau of Compensatory Education, Health, Education and Welfare Department; Stephen Hess, National Chairman of the President's Conference on Children and Youth; Robert Lane, Acting Director of VISTA, Secretary of Transportation John A. Volpe, and many others.

A tour of Arlington National Cemetery, the National Art Gallery, Library of Congress, the Lincoln, Jefferson and Washington Monuments, the Smithsonian Institute, the Treasury Department, and as Jim says, the "million other things that tourists do" were somehow sandwiched into the busy schedule of the youth program.

Youth in Government

The seminar was held on the campus of Mount Vernon Junior College in Georgetown. Most of the classes were held there and in the New and Old Senate Office Buildings. One entire day was spent in the Pentagon.

Particularly impressive was Sen. Harold E. Hughes' report to the youngsters on drug abuses and alcoholism.

"His remarks were a little frightening, but we sat up and took notice."

You'd expect the Senate to be made up of "mostly crusty old men," he observed, "but this is not the case. There are some old men; but there are many young ones, young men with young ideas."

Unfortunately, all of Snyder's home-town representatives were out of town. Senators Albert Gore and Howard Baker were not in Washington, nor was Representative Joe Evins.

Rose Garden Welcome

On August 4, two days after the seminar began, President Nixon welcomed to this country President Joseph D. Mobutu, and his wife from the Democratic Republic of the Congo.

"There they were, the president and Mrs. Nixon, the Mobutus, right on the balcony, addressing us, just like in the newsreel," Jim described the scene. "Then they reviewed the troops, and it was all over. Very impressive."

Another highlight of the sessions was the briefing by the Embassy of Kuwait, described as one of the world's richest nations. The ambassador's representatives gave us the Arab's view of the Near East conflict, Jim observed, "one



LEARNING HOW IT WORKS—Four high school students meet Morse G. Dial, Jr., Regional Vice-President for Union Carbide Corporation in Washington. They are delegates to the Congressional Seminar of Washington Workshops, learning how our American Government works. The four were part of a group of 10 students sponsored by Union Carbide from high schools in the corporation's plant communities. From left are William M. Watkins, III (South Charleston, W. Va.); Henry C. Horne, Jr. (Piscataway, N. J.); Guy Bowman (Fostoria, Ohio); James F. Snyder (Oak Ridge); and Dial.

that we had not been exposed to. Of course, that was all before the hi-jackings."

Shares Experiences

Jim, the youngest of three children of Arthur H. Snyder, 117 Tabor Rd., Oak Ridge, enters The University of Tennessee this week to begin his pre-law studies. (His older brother Paul is a captain in the Air Force, and Peggy recently graduated from UT with a major in language.) Jim's father, a 26-year Carbide veteran, is in Y-12's Product Engineering Division.

Last week Jim shared some of his experiences with the American Government class at Oak Ridge High School. He was quick to praise his teachers from Oak Ridge. "They make government alive and interesting."

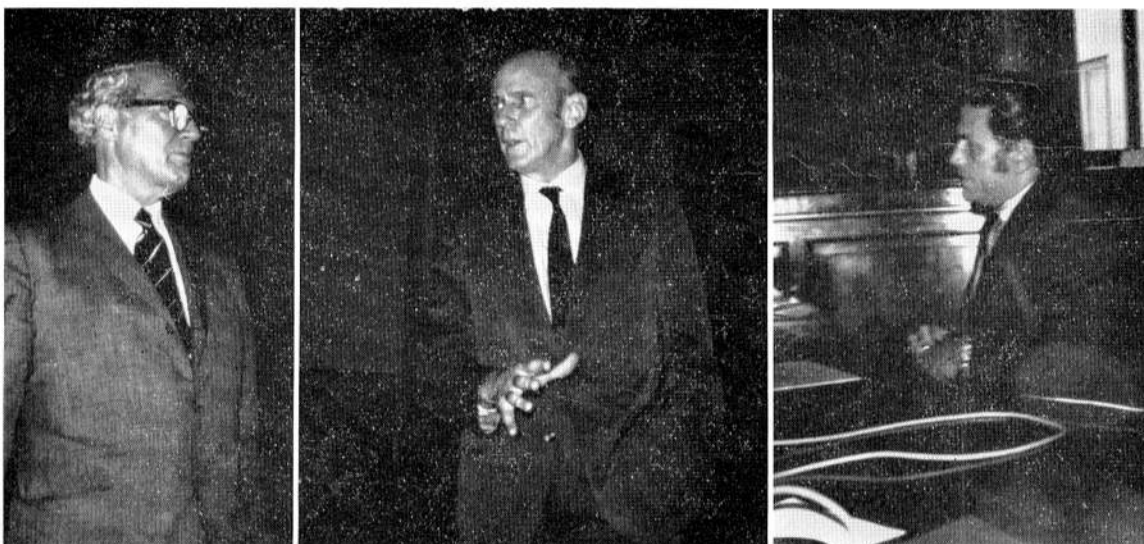
And Jim was full of praise for the Washington Workshops, a non-profit educational foundation
(Continued on Page 6)

PHOTO CREDITS

Editor's Note: The photographs used in this story, with the exception of the one in which he appears, were taken by our Carbide Scholar, Jim Snyder. They were on 35mm color slides, and rephotographed to black and white prints by our Photographic Services.



WHITE HOUSE WELCOME—President and Mrs. Joseph D. Mobutu, Democratic Republic of Congo, are welcomed to this country by President and Mrs. Nixon. They later 'reviewed the troops' in the rose garden.



SENATORS AT WORK—Interesting faces Jim Snyder observed in Washington recently at the Congressional Seminars were John Sherman Cooper (R) Kentucky; Alan Cranston (D) California; and Harold E. Hughes (D) Iowa.



WHERE THE ACTION IS—The Old Senate Office Building was the scene of some of the seminars of the Washington Congressional Workshop. Jim Snyder, son of Arthur H. Snyder, Product Engineering Division in Y-12, attended the workshop as a Carbide Scholar.

If **YOU** Don't Do It, It Won't Get Done!

Nuclear Division Seeks Record UF Total of \$297,000

'Capsule Pictures' of Knox, Anderson United Way Groups

The following paragraphs are capsule summaries of the public service organizations supported by the United Way in Knox County and Anderson County. During the drive, special brochures will be available to answer other specific questions about each county.

KNOX COUNTY AGENCIES

The United Appeal of Knox County has set a goal of \$1,600,000 for its 1970-71 drive to help support the work of 37 community service agencies.

American Red Cross — Counseling, communications, financial assistance to servicemen and training programs in first aid, water safety and nursing care; disaster preparedness and relief.

American Social Health Association — Fights social disease through education, case finding and treatment.

Arnstein Jewish Community Center — Neighborhood recreational center open to all members of the community. Summer day camp serves boys and girls pre-school through high school.

Arthritis Foundation — Maintains clinic for victims of arthritis and rheumatism for treatment and therapy. Offers educational programs and materials.

Boy Scouts of America, Great Smoky Mountain Council — Citizenship training, physical fitness program for boys age 8 to 17. Camping, swimming, self-proficiency in out-door activity.

Boys' Club of Knoxville, Boys' Club of Vestal — Concerned with all boys where there is a need. Provides physical and manual training, recreational facilities under guidance of skilled leadership.

Child & Family Services — Strengthens family life; helps unmarried parents and young people deal with their problems; provides for the welfare of children; and assists families who wish to adopt children.

Council on Social Work Education — Recruits personnel for the social work field. Works to improve social work practices through social work education.

Dale Avenue Settlement House — Offers a year-round program of recreational activities for all age groups. Activities designed to serve the needs and interests of the neighborhood.

Daniel Arthur Rehabilitation Center — Comprehensive rehabilitation services for all types of handicapped children and adults regardless of disability and age.

East Tennessee Children's Rehabilitation Center — Diagnostic, clinical, remedial and training services essential in the treatment of the handicapped.

Florence Crittenton Agency — Rehabilitative program, medical care and temporary protection for unwed mothers and their children.

Girls' Club of Knoxville, Inc. — Today's program for today's girl; cooking, grooming, knitting, home nursing, arts and crafts. Competitive scholarships offered each year.

Knox Area Mental Health Association — Offers factual information and programs concerning the problems of mental illness. Develops better services for the mentally ill and sponsors research programs on mental illness.

Knox County Association for Retarded Children — A central referral and informational service concerning mental retardation in Knox County. Operates Sunshine Sheltered Craft Shop, the KCARC Day Care Center and two summer day camps.

Knox County Urban League — Deals with complex social problems in the areas of industry, health, housing, welfare, recreation, delinquency and guidance.

Knoxville Nursery Schools — Pre-school children, whose parents must work, are cared for under a program designed to aid their physical, mental and social development.

Mental Health Center — Diagnosis, treatment and prevention of mental illness. Cosponsors with the Mental Health Association the Suicide Prevention Center.

National Assembly for Social Policy & Development, Inc. — A national planning organization comprised of volunteers and governmental and voluntary agencies to find the solution to problems that concern us all.

National Council on Crime and Delinquency — Nationwide voluntary organization of citizens and law enforcement officers to prevent and control crime and delinquency.

Planned Parenthood Association — Provides education in family planning, encourages use of the County Health Department Family Planning Clinic by the medically indigent, Speakers Bureau, group counseling, home visits, transportation provided by volunteers.

Poison Control Center — Emergency service or treatment for poisoning (accidental or overdoses). Located near the emergency room at UT Hospital.

Salvation Army — Service to transients, a welfare center, emergency family assistance, character-building activity for youth.

(Continued on Next Page)



W. H. Hildebrand



Marion H. Randolph

W. Hildebrand Picked to Lead Division Drive

Heading up the United Way Appeal for Union Carbide employees as general chairman is W. H. Hildebrand. His co-chairman is Marion H. Randolph.

Hildebrand is Superintendent of Finance and Materials at Oak Ridge Gaseous Diffusion Plant. He is a long-time Oak Ridge resident and has been active in a number of organizations, among them, American Management Association and the American Cancer Society.

Of the campaign and each employee's role Hildebrand says, "Our responsibility for social service requires the involvement, understanding and support of every employee in Nuclear Division. Once again, we soon will have the privilege to assist our fellow man — give to the United Fund — If we don't do it, it won't get done."

"Some of us may have a few selected organizations that are close to our hearts; this is our annual opportunity to contribute; also to assist and support agencies that are close to the hearts of others. I am confident we will stand united to reach our goal of \$297,000. The employees of Carbide are accustomed to being committed to success."

Marion Randolph is a development engineer with the Gaseous Diffusion Development Division at ORGDP. In addition to participating in the United Fund campaigns for several years he is also active with the American Red Cross and the American Cancer Society.

Major Questions and Answers

WHAT IS THE UNITED FUND?

The United Fund is a federation of independent community-service agencies, which together, and in large part through the collective efforts of hundreds of unpaid volunteers, seek to meet vital needs of the community, its youth, and its handicapped in areas outside the responsibility of tax-supported agencies. Five counties share in the Nuclear Division UF drive—Anderson, Knox, Roane, Loudon and Morgan.

WHY A UNITED FUND?

By consolidating fund-raising efforts into a single drive each year, United Fund agencies not only increase the efficiency of the individual efforts but also, through centralized review of agency needs and plans, assure a more comprehensive and effective overall response to community needs.

WHO SETS A UF GOAL?

Through a budget committee, made up of community representatives, actually people you know, each agency participating in the Fund determines its needs for the next year. The Board of Directors of the United Fund in each of the particular communities is broadly representative of the section as a whole.

HOW MUCH SHOULD I GIVE?

Charitable contributions are, and should be, a personal, individual matter. The United Fund drive leaders suggest for those who wish a "guide-line" the gift equal to one hour's pay per month for twelve months or 0.4 percent of earned annual income.

WHY IS SUCH-AND-SUCH AN AGENCY IN THE UF?

Personal likes and dislikes are important to all of us. But agencies in the United Fund are screened by the Fund's board, and a close watch is kept on the monies spent.

(Continued on Next Page)

Roane County Agencies

Roane County Educational Emergency Assistance Association
Roane County Emergency Rescue Squad

Roane County Boy Scouts
Roane County Girl Scouts
Roane County 4-H Volunteer Leaders Organization

Daniel Arthur Rehabilitation Center

Mental Health Center of Anderson and Roane Counties

Roane County Chapter of The American Red Cross

Muscular Dystrophy United Services Organization (USO)

National Travelers Aid Association

Planned Parenthood Association of The Southern Mountains



REMEMBER TONY?—Eight-year-old Tony, a student undergoing training and therapy at Daniel Arthur Rehabilitation Center, is the unofficial symbol of the 1970 United Way in East Tennessee. The handsome, bright-eyed young man is a victim of cerebral palsy, but your United Way dollars are making each day just a little easier for him. During this year's drive, please remember Tony.

Contributions from Nuclear Division employees go principally to United Fund agencies in the following counties: Anderson, Knox, Roane, Loudon and Morgan. When all pledges are made, the contributions are divided among counties according to each individual's designation. Payroll deductions may be made to the above mentioned counties, and cash donations may be sent through the Nuclear Division drive to any other county or United Fund group.

'Capsule Pictures' Of United Way Agencies

(Continued from Preceding Page)

Christian counsel for all ages, a helping hand to all in time of crisis.

Tanasi Girl Scouts — Prepares girls 7 to 17 for home and community responsibility through group recreation under guidance of volunteer group leaders. Operates resident and day camps.

Travelers Aid Society — Assistance to runaways, children traveling alone, aged or handicapped travelers, migrants, new-comers, and unexpected travelers difficulties, including financial assistance when part of casework plan.

United Cerebral Palsy Association — Assists persons handicapped and afflicted with cerebral palsy by promoting their general welfare, through training and teaching. Shares in research for prevention and treatment of cerebral palsy.

United Community Services — Unites 37 fund raising campaigns into one united effort. Handles financial allocations, budgeting and other administrative tasks for U. C. S. agencies.

Health & Welfare Planning Council — Promotes cooperation between public and private agencies, makes studies and gives recommendations based on these studies.

USO — Serving the religious, spiritual, social welfare and educational needs of members of the Armed Forces. A "Home Away From Home" for service men and women.

Volunteers of America — Provides emergency shelter to women and children, care to unwed mothers until they can be referred to other agencies, religious and social services, regardless of race or creed.

Y. M. C. A., Metropolitan, Central, Eastside, Westside — A complete program for young and old alike. Educational, social, recreational and Christian fellowship activities serve the entire community.

Y. W. C. A., Central, Phyllis

Wheatley — Provides for women and girls the kind of community involvement, leadership opportunity and personal experiences that enrich their lives.

ANDERSON COUNTY AGENCIES

The United Way of Anderson County has set a goal of \$233,000 for its 1970-71 drive, to help support the work of 18 county community service agencies and two local chapters of the American Red Cross.

Participating agencies are:

Anderson County Association for Retarded Children — Operates a nursery class during the school year and a summer playground for all retarded children.

Anderson County Emergency and Rescue Squad — United Way support provides supplies and equipment for highly trained volunteers to assist in emergencies such as life saving, forest fire fighting, and recovery of drowned bodies, and searching for lost children.

Anderson County Arthritis Foundation — A free clinic is held once each week for indigent Anderson County residents.

Boys' Club — Provides professional leadership for conduct by some 1,250 volunteers of a program emphasizing character development, citizenship, and physical fitness for over 3,000 boys.

Camp Fire Girls — Serves more than 1,200 girls by providing professional leadership to support 350 volunteers carrying out a "learn by doing" program for responsible citizenship and personal development.

Children's Welfare and Distressed Families Committee — Furnishes immediate temporary assistance of many types to distressed families and individuals in Anderson County.

Daniel Arthur Rehabilitation Center — Provides full and partial support for indigent children and adults requiring diagnostic and treatment services to overcome handicapping conditions

and illnesses that strike all age levels.

Emory Valley School and Sheltered Workshop — Operates a sheltered workshop to provide mentally retarded persons over 21 an opportunity to perform productive work.

Girl Scouts — Serves some 1,700 girls by providing professional leadership to support 400 volunteers who carry out a program dedicated to inspiring girls with the highest ideals of character, patriotism, and service.

Holiday Bureau — Supports the basic operation for a coordinated community opportunity to provide gifts and food for needy families at Christmas.

Mental Health Center — Provides support to enable indigent children and adults from Anderson County to obtain psychological and psychiatric diagnosis and treatment for emotional problems and mental illness.

Planned Parenthood Association — Makes available information and services on the best family planning methods through home visits, information centers, and clinics primarily for low income women.

Scarboro Day Care Center — Furnishes low-cost day care for preschool children, enabling parents to work in order to provide for their families.

United Services Organization (USO) — Provides recreation and entertainment for American service men and women all over the world. More than 1,300 persons from Anderson County now serve in the armed forces.

Young Men's Christian Association (YMCA) — Provides supervised activities at a reasonable fee and at no fee for boys from indigent families. Primary activities include operation of a Gra-Y program for elementary boys two days a week after school and operation of summer day camps for Oak Ridge boys and for County boys (Cove Lake).

Young Women's Christian Association (YWCA) — Provides a



THE CHILDREN'S WELFARE and Distressed Families Committee aids families who need immediate and temporary help. Food, clothing and many other needed items are distributed as Anderson County families face emergencies which cannot be met by other agencies.

variety of educational, personal improvement, recreational, and community service programs for girls and women of all ages. United Fund support permits fees for class type programs to be reasonable and to be waived for needy participants.

Red Cross (Cooperating) — The Clinton and Oak Ridge Chapters cooperate with the national organization in providing assistance locally, around the country, and overseas to servicemen and their families; and to disaster victims

throughout the nation. Locally, the Red Cross conducts water safety, first aid, and youth training courses; sponsors adult and junior Gray Lady groups at the Oak Ridge Hospital; and provides a free blood bank.

Youth Haven — Provides temporary housing and counseling for youths under 18 who have suffered interruption of normal childhood environment, without discrimination due to ethnic, economic, cultural, or religious background.

Major Questions and Answers

(Continued from Preceding Page)

WHY GIVE?

All of us want to be better citizens. We want to help support those organizations that will make our communities better, improve the lot of our fellow citizens, and provide services that we as individuals are unable to provide.

It's that simple . . . me helping you . . . you helping me . . . and together we help each other.

WHO SUPPORTS THE FUND?

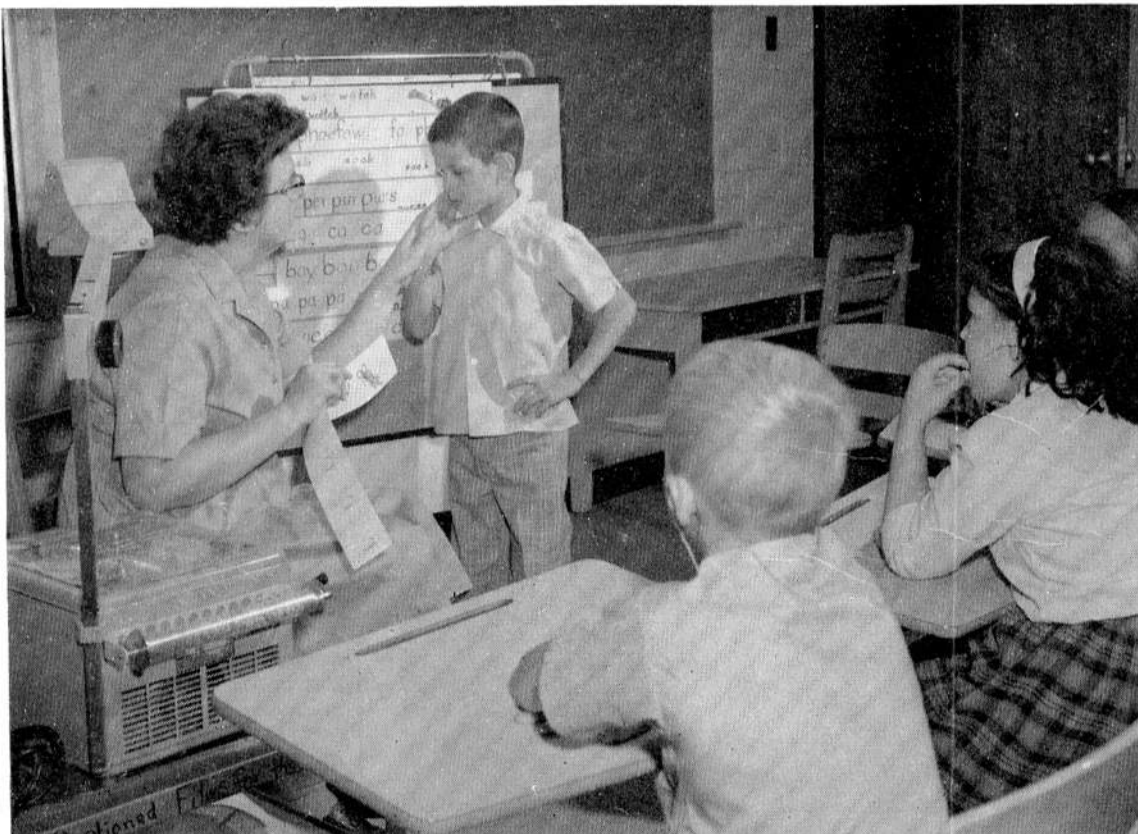
Both Carbide and union management fully endorse the United Fund. It is both management and union's wish that the drive succeed and that these vital agencies are supported by all of us.

HOW DO I GET MORE INFORMATION?

Each county prepares its own publicity and brochures, which, are usually available during drive time. If you are interested in more information about a specific agency, you may either contact your plant chairmen or the local officials of the specific agency. Anderson County, for example, lists each agency in its brochure and suggests the name to contact for more information.

WHO WILL CONTACT ME AT THE PLANTS?

During October, a team of management and labor leaders will coordinate drive activities at each Nuclear Division plant in Oak Ridge. The groups are presently being organized and will be announced in later editions of the plant newspapers.



LEARNING TO SPEAK—Mrs. Elizabeth Harlow, teacher of the hard of hearing at Daniel Arthur Rehabilitation Center, is involved with one of the students in a series of exercises leading to words. DARC is one of the public service agencies supported by your United Fund.

Aspirin for Fever?

By T. A. LINCOLN, M.D.

Recently a patient expressed reluctance to take aspirin to reduce his fever when he had a mild case of "flu." He wondered if fever played some part in his body's fight against the infection and therefore reducing it by taking aspirin might actually prolong his illness. He was willing to tolerate the mild fever if it would help shorten his period of disability.

Although fever has been induced artificially to treat certain infections, there is no reason to believe that it accelerates

or favorably influences various defense mechanisms. There is little evidence that antibody formation or the ability of blood cells or tissue cells to destroy bacteria or viruses are appreciably increased by fever alone.

Artificial fever has been used to treat syphilis involving the central nervous system, some extremely resistant gonorrhea infections and chronic undulant fever. How it works is unknown.

Fever has its detrimental effects. All metabolic processes are increased and the work and rate of the heart are

increased. The sweating produced by the increased heat increases the loss of fluid and salt. The loss of salt is seldom a problem in most infections where the patient can still eat but can be a problem in severely ill patients. The importance of drinking large amounts of non-alcoholic fluids during a fever is always emphasized by physicians, but is often ignored by patients.

The fever which accompanies an infection is due to tissue injury and pyrogenic material from white blood cells, bacteria and viruses. Fluid from an infected and injured tissue will promptly cause fever when injected into an experimental animal. The fever occurs too quickly to be caused by an infection which might be induced in the animal.

The body temperature is controlled by a "thermostat" in the hypothalamus, an area on the underside of the brain which controls the autonomic nervous system (sweating, intestinal motility, pulse, etc.) and the emotions (anger, rage, fear, passion, etc.).

Control of Body Temperature

If an animal's brain is cut above the midbrain, it cannot maintain a steady body temperature. When the environmental temperature rises, the body temperature goes up and when it gets cold, the body temperature goes down. Humans with strokes or tumors affecting this area of the brain often develop severe difficulty in controlling their body temperatures.

It has been possible to insert hollow metal probes into the anterior and posterior hypothalamus of experimental animals. By running warm water in the probe through the anterior hypothalamus, the animal will pant, the skin will become warm due to an increased circulation and the body temperature will rise. When cold water is circulated through the posterior hypothalamus, the animal will shiver and the skin will become cold due to reduced circulation trying to prevent heat loss. The body temperature will also fall.

Effect Felt on Brain

Aspirin apparently lowers the set point in the hypothalamus to normal. During an infection, the set point has been raised by the various toxic pyrogens. Aspirin resets the thermostat to near normal. As a consequence, the brain recognizes that the body is too hot, so starts a profuse sweating process to lower the temperature. Aspirin does not influence heat production. Likewise, it will not cause sweating when the temperature is normal. Other anti-fever compounds, such as phenacetin, antipyrine, aminopyrine and acetaminophen all have similar actions.

It has been shown experimentally that aspirin will not lower the body temperature during a fever if the spinal cord is cut near the brain. The effect is therefore on the brain, not on the sweat glands themselves. Likewise, the body temperature can be lowered even if the sweating is inhibited with the drug, atropine. Here the process is much slower, but it shows that profuse sweating is not necessary.

The fever which accompanies most infections, especially viral infections like the "flu," is the result of a toxic effect.



Dr. Lincoln



JOY REPLACES DESPAIR—General William Booth in trying to conserve words in a telegram many years ago described the Salvation Army in one word — help. The Army attempts to cheer the human race the year 'round. Above a small child is cheered by the Army at Christmas.



A LEGEND—Gerald Goldberg has become a Holiday tradition in Oak Ridge. As head of the Holiday Bureau he collects food and toys for the needy at Christmas.

It does not appear to be a part of the body's defense mechanism.

Aspirin not only reduces the elevated body temperature to near normal levels, but also diminishes headache and muscle pain so common in many virus infections. It allows the patient to rest more comfortably, which has a beneficial effect on the bodily defenses.

A low grade fever does little harm and causes little discomfort. There is therefore little justification to "automatically" reach for the aspirin bottle. Any medicine should be used with common sense. When the fever gets over 100 degrees and there are associated symptoms, aspirin can be quite beneficial with little risk.

VEHICLE VIRUS

The National Safety Council says these are the crucial areas of a car that can most easily become infected "vehicle virus": Brakes, headlights, rear lights, turn signals, tires, wheels, exhaust system and muffler, horn, rear-view mirror, windshield wipers, and glass.

Service Groups in United Fund Provide Vital Community Help

EDITOR'S NOTE: This is the second in a series of articles on the United Fund, scheduled to begin shortly in the Nuclear Division plants. This deals with the service groups of the United Funds in our various communities. In the next issue we will discuss youth organizations.

Where does a young, unwed mother go for help? Who takes in children from broken homes, helping them until some balance is restored to their lives? Who provides family planning and counsel to the most indigent women in the community?

Who searches long hours, without pay, for the victim of a swimming accident?

These are the many answers provided in the service group of agencies supported by funds from the United Fund.

'Wanted Child'

The Planned Parenthood Association, for instance, makes information and services available on the best family planning methods available, enabling lower income groups to plan their family with competence and not by accident, making every child a wanted child.

The USO provides needed services to members of the Armed Forces, extending them a friendly hand when it is needed most. USO provides that extra boost in morale that servicemen and women so vitally need.

Youth Haven provides a home for children under 18 who have suffered a major disruption in their family environment. Prior to this agency's existence, these children were housed in the Anderson County jail for lack of other places to put them!

Multiple Responsibility

Scarboro Day Care Center provides competent, low-cost care for pre-school children whose mothers must work. About 50 children from two to six attend the center in Oak Ridge each day.

The Rescue Squad, from any surrounding county as well as our

own, allows these highly trained volunteers the chance to assist in emergencies such as life saving, forest fire fighting, and the recovery of drowned victims, plus the searching for lost children. Squad members perform these vital services at no salary!

Salvation Army

In Knox County, the Salvation Army is an agency in the United Fund. No one needs to be reminded of the noble efforts these dedicated people. The broken lives they mend, the hungry mouths they feed, the countless lonely hours they fill with compassion for fellow human beings, all set these people apart from ordinary goodness. Their years of tireless service to humanity are monuments to the greatness of the human spirit.

In Loudon County they call it the Empty Stocking Fund, in Anderson it's the Holiday Bureau, and in other communities it is called something else. But regardless of its name, it is always there during the Holidays to bring cheer to the needy in our midst.

The service groups of the United Fund are there for you when it is impossible for you to be there. They act as your good agent in work that makes better people of all of us, and our communities better places to live.

Institute of Chemists

Meeting in Kingsport

The Tennessee Chapter of the American Institute of Chemists will meet Saturday, September 26, in Kingsport. The dinner meeting will begin at Scoby's Restaurant at 6:30 p.m.

The technical meeting, set at 8, will be held in the auditorium of the research laboratories of Tennessee Eastman Corporation. Dr. Lee G. Davy, executive vice president in charge of development of TEC, will speak on the "Future of the Professional Chemist."

Local reservations may be made through P. S. Baker, extension 3-1742.

| | | | | | | | |
|------|-------|-----|-------|------|---------------|-----|------|
| DIV. | DEPT. | P/R | BADGE | NAME | NOW DEDUCTING | CO. | CODE |
|------|-------|-----|-------|------|---------------|-----|------|

UNITED FUND AUTHORIZATION AND RECORD

I HEREBY AUTHORIZE UCC-ND TO DEDUCT FROM MY EARNINGS EACH MONTH:

Needed ☐ 0.4% of present base pay Share ☐ 0.3% of present base pay

☐ \$ _____ Insert any other amt.

☐ \$6.00 ☐ \$5.00

☐ \$4.00 ☐ \$3.00

☐ \$2.00 ☐ \$1.00

(Minimum P/R deduction \$1.00 per month)

DATE _____

SIGNATURE _____

| | | | |
|-------------------------------|-------------------------------------|----------------|-----------------------|
| PAYROLL DEDUCTION (CHECK ONE) | COORDINATE | NAME OF COUNTY | LUMP SUM CASH PAYMENT |
| <input type="checkbox"/> 1 | ANDERSON COUNTY UNITED FUND | \$ | |
| <input type="checkbox"/> 2 | KNOX COUNTY UNITED FUND - RED CROSS | \$ | |
| <input type="checkbox"/> 3 | LOUDON COUNTY UNITED FUND, INC. | \$ | |
| <input type="checkbox"/> 4 | MORGAN COUNTY UNITED FUND, INC. | \$ | |
| <input type="checkbox"/> 5 | ROANE COUNTY COMMUNITY CHEST | \$ | |
| <input type="checkbox"/> 6 | OTHER | | |
| TOTAL | | | |

This authorization is made with the understanding that I may cancel at any time, and if for any reason I should leave the employment of the company, this authorization is automatically canceled.

UCN-289 (1236 9-70)

UNION CARBIDE CORPORATION
NUCLEAR DIVISION
P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

BULK RATE
U.S. Postage
PAID
Oak Ridge, Tenn.
Permit No. 71

RETURN REQUESTED
(Do Not Forward—Return Postage Guaranteed)



Y-12
Ride wanted from Michigan Ave., Oak Ridge, to Y-12's Bear Creek Portal, straight day. J. D. Bomar, plant phone 3-5307, home phone Oak Ridge 483-1196.

Ride wanted from Inskip to Y-12's Bear Creek Portal, H Shift. Ronnie Carroll, plant phone 3-5121, home phone Knoxville 689-2784.

Ride wanted from Fairmont Blvd., Knoxville, to Bear Creek Portal, J Shift. David Bullen, plant phone 3-5807, home phone Knoxville 687-9288.

Ride wanted from 17th St. Exit, I-40, Knoxville, to Central Portal, straight day. John Hathaway, plant phone 3-7082, home phone Knoxville 546-3567.

Ride wanted from 709 West Outer Dr., Oak Ridge, to Central Portal, straight day. Brenda Suttles, plant phone 3-7213, home phone Oak Ridge 483-9876.

K-25
Ride wanted from Woodland vicinity, Oak Ridge, to Administration Area, 7:45 to 4:15. Pamela Valliant, 3-3051, home: 483-1966.

Ride wanted from Halls Shopping Center to Administration Area, 7:45 to 4:15. Doug Legg, 3-3677, home: 922-7370.

Schreyer to Address ASCET Meeting Friday

The Oak Ridge-Knoxville Chapter of the American Society of Certified Engineering Technicians (ASCET) will meet at McGhee Tyson Air Base Officers Club, Friday, September 25. The meeting begins at 7:30 p.m.

Speaker will be Dr. James M. Schreyer, Chemistry Development Superintendent, Y-12, whose topic will be "Cleaner than Clean," a discussion of the moon rock boxes and related hardware.

Carbide Scholar

(Continued from Page 2)
specializing in summer study for students in the nation's Capital, and its sponsors. He was particularly grateful to Union Carbide for offering him the scholarship for the summer study.

Informed on Issues
The young scholar was also informed on major issues of the day . . . the war, the draft, the vote for the 18-year-olds, inflation, student unrest, drugs, crime, city decay, etc.

In parting he mused as to why a monument to John Marshall, noted Chief Justice, sits in front of the U. S. Capital.

"The site was once where the

'A Little at a Time'

Payroll Deductions Can Make It Easy to Help United Fund

It's almost United Fund drive time, and early next month you will be asked to again give your "needed share."

Each employee will receive a UF "Authorization and Record" card, similar to the one above. Using this card, you will have the opportunity to designate the county to receive your donation, and whether the gift will be by check, cash, or payroll deduction.

Experience has shown that the card is basically self-explanatory, but that most questions concern the "needed share" (see left side of form). Why have two choices — both 0.3 and 0.4 percent—in the needed share slot?

Before last year, 0.3 percent was the only "needed share" recommended to Carbide employees. But, last year, the UF people were forced to raise their overall request in order to meet rising costs and increased services for a growing community.

So be your own judge. The 0.3 percent gift still qualifies you as one who is willing and able to do your share; while the 0.4 percent slot designates those willing to give a little more.

Either way, the gift is easy to make when we use the payroll deduction plan. The table shows how both "needed shares" would affect your wallet. Giving a little at a time, you will see, is relatively painless but can mean so much to so many.

| Your Annual Income | Monthly Gift 0.4% | Monthly Gift 0.3% |
|--------------------|-------------------|-------------------|
| \$ 5,000 | \$1.67 | \$1.25 |
| \$ 6,000 | 2.00 | 1.50 |
| \$ 7,000 | 2.33 | 1.75 |
| \$ 8,000 | 2.67 | 2.00 |
| \$ 9,000 | 3.00 | 2.25 |
| \$10,000 | 3.33 | 2.50 |
| \$11,000 | 3.67 | 2.75 |
| \$12,000 | 4.00 | 3.00 |
| \$13,000 | 4.33 | 3.25 |
| \$14,000 | 4.67 | 3.50 |
| \$15,000 | 5.00 | 3.75 |

Whatever gift you give, however, is greatly appreciated. Your dollars make it possible for United Fund agencies and volunteers to continue vital services for our youth, the handicapped, and the community.

Supreme Court met," he pointed out.

Social life? "We had a very nice dinner-dance the night the seminar ended. With sessions every night, we didn't have much time to play around."

Hole-in-One!

Y-12er Genz O'Hara accomplished the impossible last Thursday at the Oak Ridge Country Club. He fired a hole-in-one on hole number three. The par three hole, a 150-yarder, fell to O'Hara with a number eight iron.

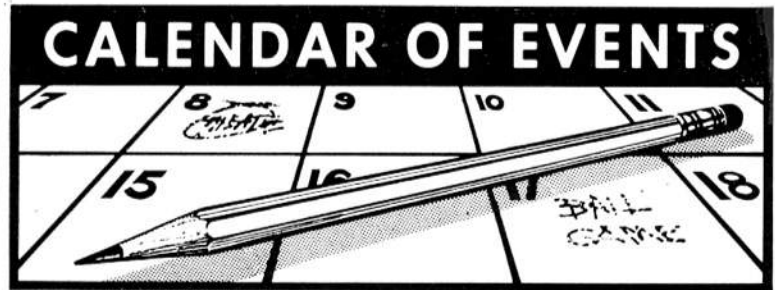
Witnesses John Noey, Newt Hamby and Ed Gambill say it was the first ace in O'Hara's career. Then they point out quickly that they never had one!

AEC Films Center On Nuclear Careers

A new -three- film series designed to motivate students in their formative years to consider careers in the field of nuclear science and engineering is available for loan from the Atomic Energy Commission here.

The 16-mm motion pictures are entitled: "Horizons Unlimited," "Preparing for Tomorrow's World," and "Your Place in the Nuclear Age." The first film runs 37 minutes and the others are 26-minute showings.

The U. S. Army Pictorial Center produced the films for the AEC with assistance from the American Nuclear Society.



TECHNICAL

September 24
ORAU Medical Division Staff Seminar: "Radioactive Contamination and Decontamination of Edible Oils and Oil Seeds," A. Seher, Director, Institute of General and Analytical Chemistry, Federal Establishment for Fat Research, Munster, Germany. ORAU Main Conference Room, Medical Division, 4 p.m.

Solid State Division Seminar: "Trapped Hole Centers and Monovalent Alkali Ions in CaO," H. T. Tohver, University of Alabama. Building 3025 Conference Room, 10 a.m.

Pollution Discussion. Tennessee Environmental Council and American Association of University Women. 7:30 p.m., St. Mary's Auditorium.

September 25
Physics Division Seminar: "RHETORIC—A Discourse on Research with Heavy Element Targets at ORIC," R. L. Hahn, TRL, Chemistry Division, Building 4500N, East Auditorium, 3 p.m.

Oak Ridge Chapter of The National Secretaries Association Seminar: Holiday Inn, Oak Ridge,

12:30 Luncheon, 2 p.m. program. Oak Ridge-Knoxville Chapter of the American Society of Certified Engineering Technicians meeting. James M. Schreyer will speak on "Cleaner than Clean." McGhee Tyson Air Base Officers Club, 7:30 p.m.

September 26
Tennessee Chapter meeting of the American Institute of Chemists. Dinner: Scooby's Restaurant, Kingsport, 6:30 p.m. Meeting, Auditorium of the Research Laboratories and Tennessee Eastman Corporation, 8 p.m. Dr. Lee G. Davy, vice president, TEC, will speak on the "Future of the Professional Chemist."

September 30
Southeastern Industrial Health Conference: Riverside Motor Lodge, Gatlinburg.

Metals and Ceramics Division Seminar: "Electronic States in Disordered Systems," J. S. Faulkner, Building 4500N, East Auditorium, 2:45 p.m.

October 1, 2
Southeastern Industrial Health Conference: Riverside Motor Lodge, Gatlinburg.

FAMOUS ATOMIC SCIENTISTS

His 225-TON ATOM SMASHER, FIRST MAN-BUILT INSTRUMENT WHICH COULD CONVERT ONE ELEMENT TO ANOTHER. THIS TECHNOLOGY, APPLIED TO URANIUM ISOTOPE SEPARATION, LED TO THE FIRST PRODUCTION OF U-235 IN LARGE QUANTITIES AT OAK RIDGE

AN AUTHORITY ON NUCLEAR, BIOLOGICAL AND MEDICAL PHYSICS. HE WON THE NOBEL PRIZE IN 1939 AND THE FERMI AWARD IN 1957

HE HELPED ADVANCE COLOR TELEVISION BY INVENTING A TUBE TO RECEIVE BOTH COLOR AND BLACK & WHITE WITHOUT A CONVERTER

DR. ERNEST O. LAWRENCE
1901-1958

A FAMOUS PHYSICIST AT AGE 30, HE WAS THE INVENTOR OF THE WORLD'S MOST POWERFUL "GUN"—THE CYCLOTRON. A NOTED TEACHER AND ORGANIZER, FUTURE SCIENTIFIC MINDS ARE NOW BEING TRAINED AT THE LAWRENCE RADIATION LABORATORY WHICH HE ESTABLISHED AT THE UNIVERSITY OF CALIFORNIA